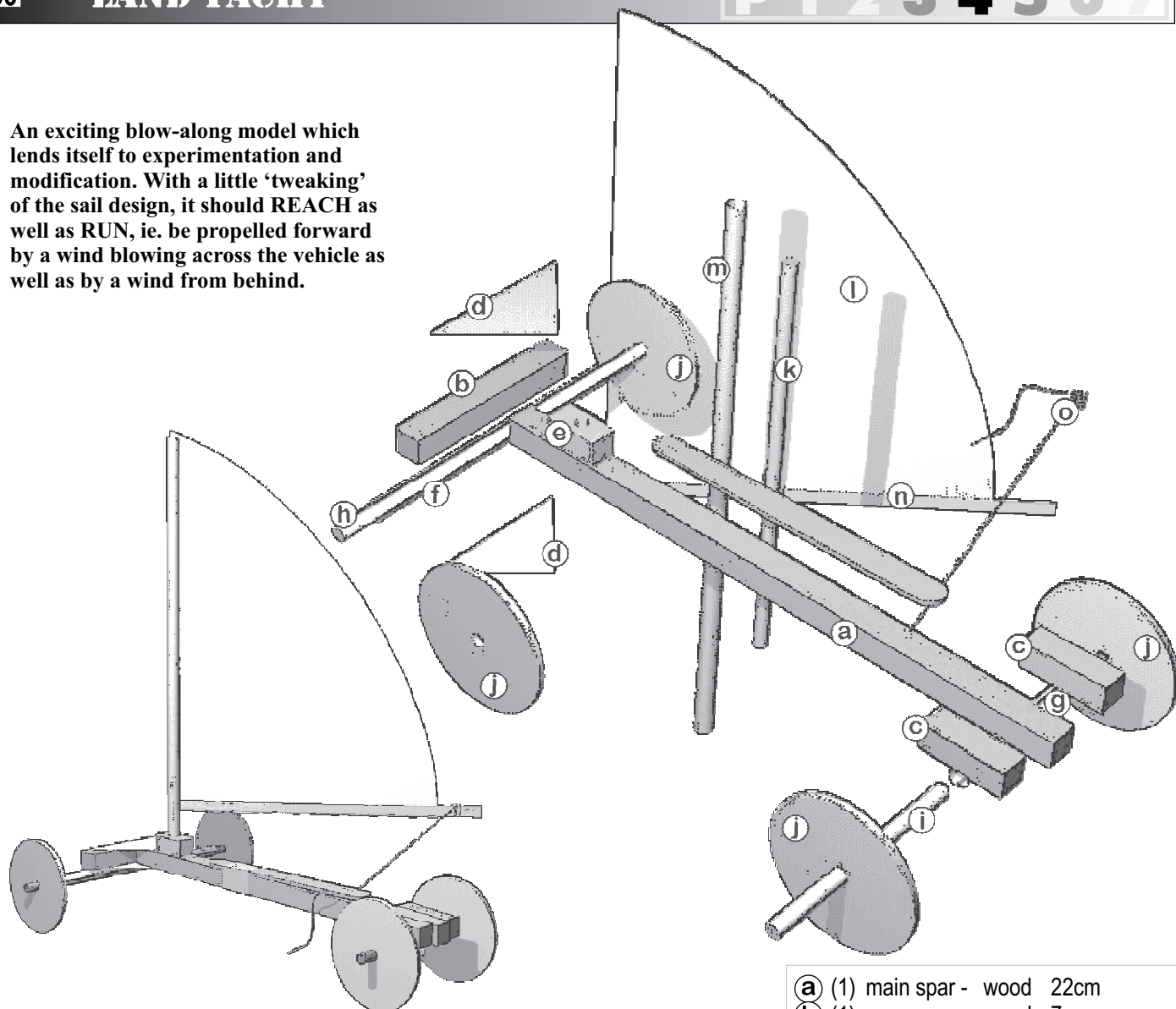


An exciting blow-along model which lends itself to experimentation and modification. With a little 'tweaking' of the sail design, it should REACH as well as RUN, ie. be propelled forward by a wind blowing across the vehicle as well as by a wind from behind.



- Make up the T-frame chassis from the 4 pieces of wood (a,b,c). Use the table top to ensure that the assembly stays flat. Fit the drilled block (e) just behind the card triangle.
- Glue the 2 axle bearings (f,g) to the underside of the frame. Use PVA, but perhaps short pieces of sticky tape will help position them until the glue sets.
- Fit wheels and axles - the discs will be a push fit on the dowels, but once you are happy with the position, a little glue will keep them in place. Don't push the discs against the ends of the straws - they need a little bit of room to allow them to rotate freely.
- Fit the mast in the block and make up the sail assembly. Cut the sail from an A5 piece of thin card and glue straw to the longer straight edge. Glue a narrow strip of stiff card, or better still, a length of wooden splint (*spill*), along the short side. This is the boom. Fasten a length of thread to the boom end. This is the SHEET, (*a rope that is used to control a sail*).
- Fasten a lolly stick along the top surface of the centre spar of the frame. Use masking tape, and fix near the mast end. This will allow the other end to bend upwards and form a simple spring clamp for the sheet.
- Slide the sail assembly onto the mast and draw the thread sheet under the lolly stick.
- Test run. If you wish your landyacht to run before the wind let out the sheet until the sail is at right angles to the vehicle's centre line. If you wish it to sail across the wind, then draw in the sheet until the sail is about 45° to the centre line.

a	(1) main spar - wood	22cm
b	(1) cross spar - wood	7cm
c	(2) blocks - wood	3cm
d	(2) card triangles	4 x 4cm
e	(1) mast block - wood	2cm (drilled)
f	(1) bearing - straw	12cm
g	(1) bearing - straw	5cm
h	(1) front axle - dowel	15cm
i	(1) rear axle - dowel	7½cm
j	(4) wheels - card disc	51mm dia.
k	(1) mast - dowel	15cm
l	(1) sail - thin card	A5
m	(1) sail sleeve - artstraw	22cm
n	(1) boom - wood splint/card strip	
o	(1) sheet - thread	20cm

When sailing across the wind the vehicle will have a tendency to blow over (capsize) in the gusts.

How could you reduce the risk of capsize?

How does a sailing yacht stay upright?

Why do some of the crew sometimes hang out over the side? (*Seasick, perhaps?*)